

RESEARCH DEPARTMENT

**S.T. AND C. MICROPHONE TYPE 4126 (2ND MODEL)**

Technological Report No. L-067/5  
UDC 621.395.616.385.1 1966/36

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1. Supplier: Standard Telephones and Cables Ltd.
2. Description: Electrostatic, end-fire cardioid operated by field-effect transistor; battery or mains unit and 30 m cable supplied. Windshield available. Modified version of type described in Report No. L-067.
3. Price to BBC: £65 for battery version, £70 for mains operated type.
4. Appearance and Dimensions: See Fig. 1.
5. Weight: 0.05 kg without cable.
6. Impedance: Nominally either 30 or 300 ohms. Actual value close to nominal.
7. Frequency Characteristics: Characteristics of two specimens given in Figs. 2 and 3.
8. Sensitivity: Mid-band sensitivity for the two specimens tested: -54 dB with reference to 1 volt/N/m<sup>2</sup> on 300 ohms.
9. Noise and Interference:
- 9.1. Internally Generated Noise (weighted) Equivalent mid-band sound level +26 dB and +29 dB with reference to 20  $\mu$ N/m<sup>2</sup> respectively for the two specimens.
- 9.2. Wind Noise (weighted)

Microphone Condition	Equivalent mid-band sound level, dB with ref. to 20 $\mu$ N/m <sup>2</sup> for wind speed of 16 km/h				
	Angles of Incidence				
	0°	45°	90°	135°	180°
Serial No. 207, unequalised	+99	+94	+95	+110	+107
Serial No. 207, equalised	+102	+98	+99	+113	+109
Serial No. 209, unequalised	+101	+92	+98	+112	+106
Serial No. 209, equalised	+104	+96	+102	+115	+109

Note:

The figures for the equalised condition are average for 0°, 45° and 90° but are about 10 dB worse than average for 135° and 180°.

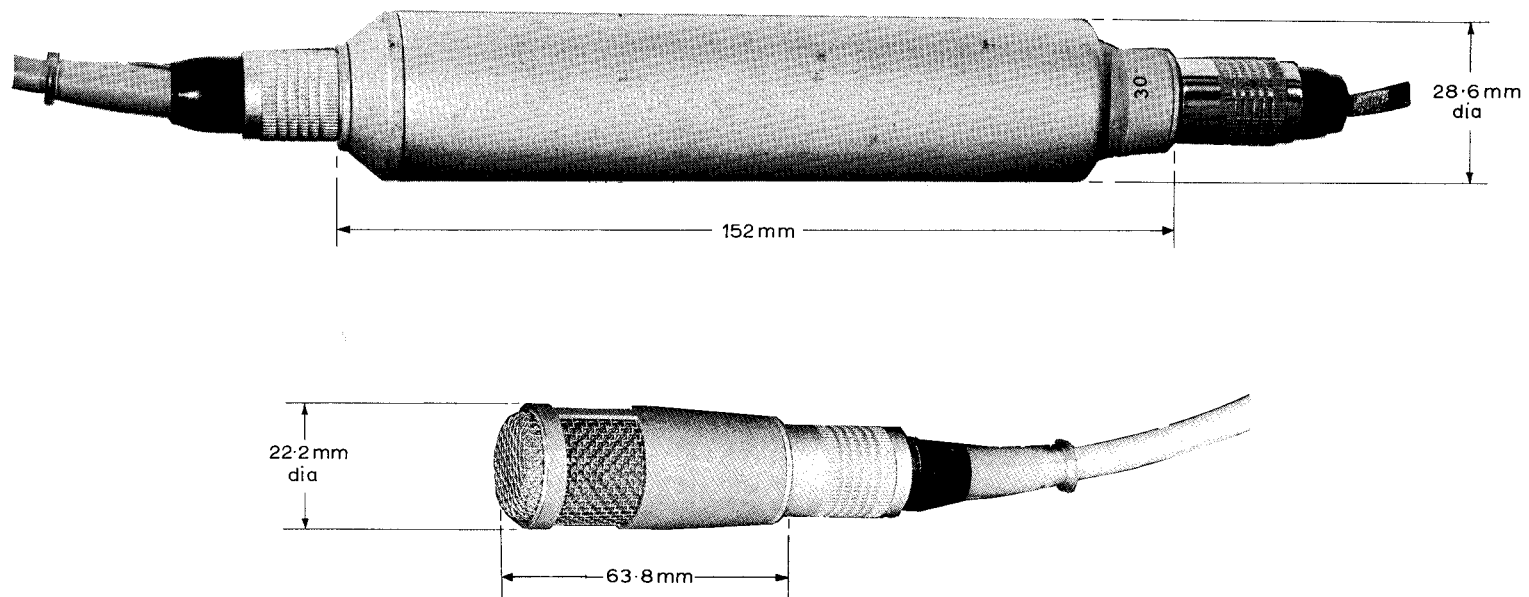


Fig.1. External appearance and dimensions of S.T. and C. microphone type 4126.

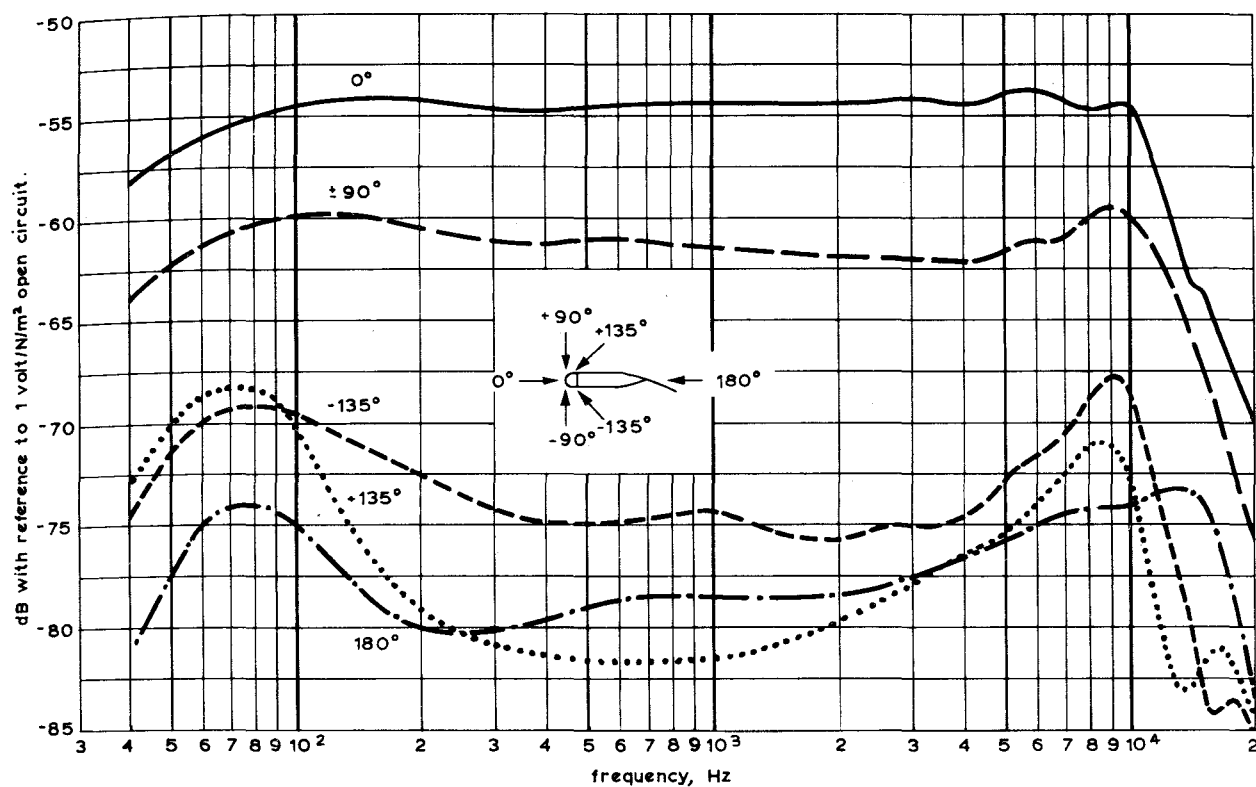


Fig. 2 Frequency characteristics of S.T. and C. microphone type 4126, serial No 207.

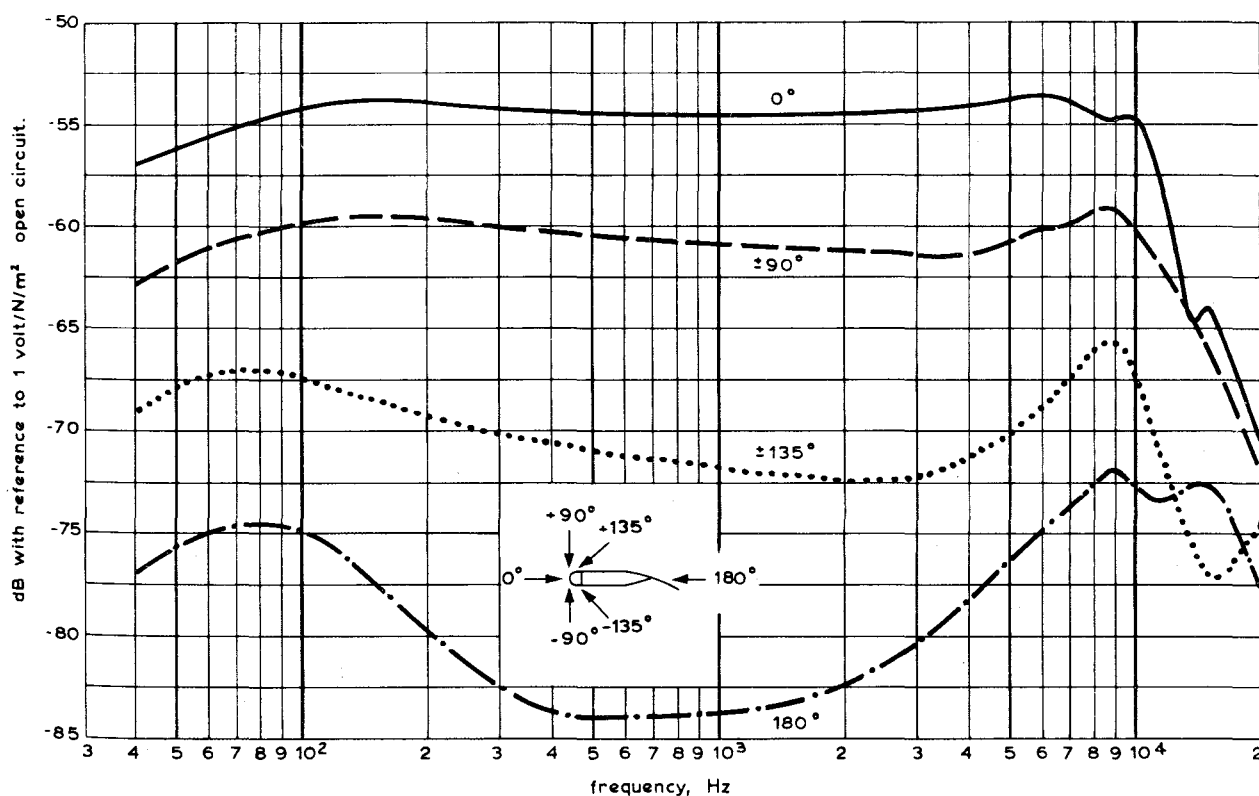


Fig. 3 Frequency characteristics of S.T. and C. microphone type 4126, serial No. 209.